Research Article

Yoga

International Journal of Research Padagogy and Technology in Education and Movement Sciences

2023 Volume 12 Number 02 APR-JUN



EFFECT OF SURYANAMSKARA AND YOGA PRACTICES ON SELECTED PHYSICAL AND PSYCHOLOGICAL VARIABLES AMONG GIRLS COLLEGIATE STUDENTS

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DOI: https://doi.org/10.55968/ijems.v12i02.374

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The objective of this study was to find out the effect of suryanamskara and yoga practices on selected physical and psychological variables among girls collegiate students. This research was based on pre-test and post-test group design. A total number of 45 girls students (15 - experimental suryanamskara & yoga practice group and 15 - control group) as samples aged 18-21 years were selected on the basis of purposively method of sampling technique from cuncolim educational society colleges of arts and commerce cuncolim, Goa state. The study was taken to the variables was physical and psychological variables. The selected subjects were pre-tested by 12 min run & walk Cooper test, sit & reach, sit-ups test and self concept Mukta Rani Rastogi questionnaire for psychology variable all test conducted before the programs implemented and after treatment of eight weeks suryanamaskar and yoga program on collegiate students which was given six days in a week was manipulated only on experimental group. After programs both the groups i.e, experimental were post tested for data collection. After data collection, data of pre-test and posttest of both the groups i.e, experimental and control group, compared by independent sample t-test and interpretation were drawn. The researcher made the conclusion that eight weeks suryanamskara and yoga program was significantly improvement of cardio vascular endurance, flexibility, muscular endurance and self concept of collegiate girls students of experimental group compared control group.

Keywords: Yoga, Collegiate Students, Cardio Vascular Endurance, Flexibility, Muscular Endurance

Corresponding Author	How to Cite this Article	To Browse	
Gautami S. Dessai, Research Scholar, Department of Physical Education, Mother Teresa Women's University, Kodaikanal, Tamil Nadu, India. Email: dessai25gautami@gmail.com	Gautami S. Dessai, A. Rajam, EFFECT OF SURYANAMSKARA AND YOGA PRACTICES ON SELECTED PHYSICAL AND PSYCHOLOGICAL VARIABLES AMONG GIRLS COLLEGIATE STUDENTS. IJEMS. 2023;12(02):268-271. Available From https://ijems.net/index.php/ijem/article/view/374		

Manuscript Received 2023-02-15		Review Round 1 2023-03-29	Review Round 2 2023-04-13	Review Round 3 2023-04-30	Accepted 2023-05-30
Con	flict of Interest NIL	Funding NO	Ethical Approval YES	Plagiarism X-checker 11%	Note
	© 2023by Gautami S. De Commons Att	essai, A. Rajamand Published by ⁻ ribution 4.0 International License	The University Academics. This is a e https://creativecommons.org/lice	an Open Access article licensed under a enses/by/4.0/ unported [CC BY 4.0].	Creative O

Introduction

Yoga is an ancient art based on a harmonizing system of development for the body, mind and spirit. The continued practice of yoga will lead you to a sense of peace and well being, and also a feeling of being at one with their environment. The practice of Yoga makes the body strong and flexible. It also improves the functioning of the respiratory, circulatory, digestive and hormonal systems. Yoga brings about emotional stability and clarity of mind. Asanas are physical exercise enabling the body to be physically fit. These exercise in physical education play an important part in helping the pupils to maintain a slim and youthful body. Several tests and experiments have been conducted to know the values and importance of asanas. The most important point to realize before starting the practice of yoga is that "The asanas are not just simple exercise but sustained scientific pattern" of posture.

The sun sustains life on earth. Our ancient seers acknowledged this and revered the Sun. The Suryanamaskar is an appreciation in motion that is offered to the sun. It involves twelve postures signifying the sun's cycles which run at approximately twelve and a quarter years. If your system is invigorated, then your cycle will be in harmony with the solar cycle. The Suryanamaskar helps create this harmony between your physical cycle & that of the sun. Chants called Sun Salutation Mantras may accompany the Surya Namaskar. These chants bring harmony in body, breath and the mind. As the practice deepens, so do the benefits. When chanted with sincere gratitude, these mantras can take the practice to an enhanced spiritual level.

Material and Method

The present study was an experimental research which was conducted with a purpose to find out effect of suryanamskara and yoga practices on selected physical and psychological variables among girls collegiate students. This research was based on pre-test and post-test group design. Present research whole population among a total number of 45 girls students (15 - experimental suryanamskara & yoga practice group and 15 - control group) as samples aged 18-21 years were selected on the basis of purposively method of sampling technique from cuncolim educational society colleges of arts And commerce cuncolim, Goa state. The study was taken to the variables was physical and psychological variables. The selected subjects were pre-tested by 12 min run & walk Cooper test for CV, sit & reach test for flexibility, sit-ups test for muscular endurance and self concept Mukta Rani Rastogi questionnaire for psychology variable all test conducted before the programs implemented and after treatment of eight weeks suryanamaskar and yoga program on collegiate students which was given six days in a week was manipulated only on experimental group. After programs both the groups i.e, experimental were post tested for data collection. After data collection, data of pre-test and post-test of both the groups i.e, experimental and control group, compared by paired sample t-test and interpretation were drawn.

Suryanamaskar and Yoga Program (Enclosed as Annexure 01)

Results of the study

The obtained results are present in the following table which represents the results of independent sample t-test to compare the mean values of experimental and control group.

Table no. 1 Statistical Analysis of Independent Sample 't' Test

Enclosed as Annexure 02

Discussion of findings

The findings relate the effects of suryanamskara and yoga program on physical fitness and psychology variable of girls collegiate students in experimental group and control group. 12 min run & walk cooper test, sit & reach test, sit-ups test and self concept questionnaire conducted for experimental and control group. To examine the significance of mean differences between the experimental and control group, t-test was applied at 0.05 level of significant with t-value respectively 2.68, 2.57, 3.88 and 13.63 found. The t-value was found to be statistically significant of experimental group compare to the control group.

Study supports the findings Prof. (Dr.) Kanwaljeet Singh, Dr. Baljinder Singh Bal, Dr. Wilfred (2012), assessed the effects of suryanamaskar yogasana on muscular endurance and flexibility. Material and methods: Thirty randomly selected female students aged 17-25 years volunteered to participate in the Study. They were randomly assigned into two groups: A (experimental) and B (control). The subjects were subjected to a six week suryanamaskar yogasana training programme. The difference in the mean of each group for selected variable was tested for the significance of difference by "t" test. The level of significance was set at 0.05.Results: The muscular endurance and flexibility significantly improved in group A compared with the control one. Conclusions: Suryanamaskar asana may be recommended to improve muscular endurance and flexibility.

Conclusion

On the basis of result obtained in the study the researcher made the concluded that eight weeks suryanamskara and yoga program was significantly improved cardio vascular endurance, flexibility, muscular endurance and self concept of collegiate girls which indicate the level of physical fitness and psychological variables also the findings of this study may be helpful to the students to doing regular practice of suryanamskara and yoga to improve their physical fitness and psychological well being.

Annexure

Annexure 01

	Suryanamaskar (30 min)							
	Day	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
1-4 Week	Repetitions	14	14	14	14	14	14	
	Total time	30	30	30	30	30	30	Rest
		min.	min.	min.	min.	min.	min.	
	Yoga practice (30 min)							
Prayer, Suryanamaskar, Pashiomoutanasan, Sarvangasan, Dhanurasan, Karnapidasan Mayurasan, Padambakasan, Hanumantasan, Titibhasan, Purna-Chakrabandhasan Suryanamaskar (30 min)								
	Day	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
5-8	Repetitions	16	16	16	16	16	16	
Week	Total time	30	30	30	30	30	30	Rest
		min.	min.	min.	min.	min.	min.	
Yoga practice (30 min)								
Setubar Bhujan	idha Sarvang gasan, Purna-N						ayanasan, Padmasan	

Annexure 02

Test	Groups	Ν	Mean	MD	't' value
12 min Run & Walk	Experimental Group	15	1970	410	2.68
	Control Group	15	1560	410	2.00
Sit & Reach	Experimental Group	15	17.5	2.2	2.57
	Control Group	15	15.3	2.2	
Sit-Ups	Experimental Group	15	26.0	8.0	3.88
	Control Group	15	18.0	0.0	
Self Concept	Experimental Group	15	154.61	2.83	13.63
	Control Group	15	151.44	2.05	15.05

Reference

Bhadra C, Singh S. A Study of Relationship between Height and Selected Body Parts Flexibility of College Level Male Athlete. IOSR Journal of Sports and Physical Education, 3(1), 2016, 27-29. [Crossref] [Google Scholar]

Choudhary R. The Effects of Dynamic Suryanamaskar on Flexibility of University Students. Journal of advanced pharmaceutical technology and research, 1(1), 2010, 45-42. [Crossref][Google Scholar]

D'souza C, Avadhany ST. Effects of yoga training and detraining on physical performance measures in prepubertal children--a randomized trial. Indian journal of physiology and pharmacology, 58(1), 2014, 61-68. [Crossref][Google Scholar]

Kumar, S. A., Sivapriya, D. V. and Thirumeni, S. (2011) "Effect of Suryanamaskar on cardio vascular and respiratory parameters in school student". Recent research in Science and Technology 2011, 3(10): 19-24 [Crossref][Google Scholar]

Mandeep Singh (2010). Evaluation And Improvement Of Sports Techniques Through Biomechanical Updated Analyzing Technology, University News, Journal of Higher Education Association of Indian Universities, Association of Indian Universities, Vol:48:Issue. 05;2010 Pp45-57, 2010. and Thirumeni, S. (2011) "Effect of Suryanamaskar on cardio vascular and respiratory parameters in school student". Recent research in Science and Technology 2011, 3(10): 19-24 [Crossref][Google Scholar] [Crossref][Google Scholar]

. . 05;2010 Pp45-57, 2010. And Thirumeni, S. (2011) "Effect of Suryanamaskar on cardio vascular and respiratory parameters in school student". Recent research in Science and Technology 2011, 3(10): 19-24 [Crossref][Google Scholar] [Crossref] [Google Scholar] [Crossref][Google Scholar]

Mandeep Singh Nathial, A Study of Adjustment and Emotional Intelligence of University Coaches in India, American Journal of Applied Psychology. Volume 3, Issue 6, November 2014, pp. 122-126. doi: 10. 11648/j.ajap.20140306.11 [Crossref] [Google Scholar]

Nathial, Mandeep Singh. A COMPARATIVE AND ANALYTICAL STUDY OF SELF-ESTEEM AND

JOB SATISFACTION IN ATHLETES AND NON ATHLETES. Journal of Advances in Social Science and Humanities, 2(10). https://doi. org/10.15520/jassh210123 [Crossref][Google Scholar]

Singh, M., Kour, R., & Kour, A., A collaborative diversified investigation of respective responses of sports person coaches and organizations on criminalization of doping.International Journal of Health Sciences, 6(S3), 11295–11310. [Article] [Crossref][Google Scholar]

Mandeep Singh. , Assessment of Vocational Interests of Pahadi&Bakarwal School Students In Relation To Their Gender. Int J Recent Sci Res. 9(3), pp. 24817-24819. DOI: [Article][Crossref][Google Scholar]

Dr. Mandeep Singh, 2017. "A study of awareness of inhouse doping errors among national level players and sports administrators in J&K state of India", International Journal of Current Research, 9, (01), 45226-45227. http://www. journalcra.com/sites/default/files/issuepdf/20036.pdf [Crossref][Google Scholar]

Mandeep Singh, 2019; "Effect of Mobile Screen Psychomotor Digital Image Motivators in Person Technique in Reducing Anxiety Level of Intervarsity Players of Cluster University Jammu, Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP). Volume-9 Issue-1, October 2019, PP: 3750-3752, DOI: 10. 35940/ijeat. A9811. 109119. [Article][Crossref][Google Scholar]

Mandeep Singh. (2018). THE AWARENESS OF MOVEMENT AND FITNESS SCIENCES AMONG SCHOOL, UNDER GRADUATE AND POST GRADUATE LEVEL STUDENTS: EMPOWERING EDUCATION THROUGH PHYSICAL EDUCATION. European Journal of Physical Education and Sport Science, 4(3). [Article][Crossref][Google Scholar]

Nandar S and Urs S. R. Influence of suryanamaskar on human body. Academic sports scholar, 3(7), 2014, 1-4. [Crossref][Google Scholar]

Raja SC. Effect of yogic practices on flexibility cholesterol and blood pressure. Online international interdisciplinary research journal, 2(4), 2012, 221-225. [Crossref][Google Scholar]

Singh, K., Bal, B. S, and Vaz, W. (2010) "Effect of Suryanamaskar Yogasana on muscular endurance

And flexibility among inter college Yoginis". Citius Altius Fortius – Journal of physical Education and Sports, vol.27, No.2, June, 2010 [Crossref][Google Scholar]

SINGH SIDHU, A., & SINGH, M. (2022). KINEMATICAL ANALYSIS OF HURDLE CLEARANCE TECHNIQUE IN 110M HURDLE RACE. International Journal of Behavioral Social and Movement Sciences, 4(2), 28–35. Retrieved from [Article] [Crossref][Google Scholar]

Singh, A., & Singh, D. M. (2013). PROMOTION OF RESEARCH CULTURE -ENHANCING QUALITY IN HIGHER EDUCATION. International Journal of Behavioral Social and Movement Sciences, 2(2), 202-208. Retrieved from [Article][Crossref][Google Scholar]

SINGH, M., & SINGH SIDHU, A. (2016). A COMPARATIVE STUDY OF BODY COMPOSITION AND RELATIVE HEALTH STATUS AMONG RESIDENT AND NON-RESIDENT STUDENTS IN DIFFERENT SCHOOLS OF J&K. International Journal of Behavioral Social and Movement Sciences, 5(3), 08-13. Retrieved from [Article][Crossref][Google Scholar]

Singh Nathial, D. M. (2012). ANALYZING THE CREDIT BASED SYSTEM IN PHYSICAL EDUCATION. International Journal of Behavioral Social and Movement Sciences, 1(3), 172–176. Retrieved from [Article][Crossref][Google Scholar]

SHARMA, N. P., & SINGH, M. (2014). SENIOR AGE GROUP RELATIVE EXERCISES AND IMPACT ON LIFESTYLE. International of THEIR Journal Behavioral Social and Movement Sciences, 3(04), 78-82. Retrieved from [Article][Crossref][Google Scholar]

CHAND PURI, P., MISHRA, P., JHAJHARIA, B., & SINGH, M. (2014). COORDINATIVE ABILITIES OF VOLLEYBALL IN DIFFERENT AGE GROUPS: A COMPARATIVE STUDY. International Journal of Behavioral Social and Movement Sciences, 3(3), 56-68. Retrieved from [Article][Crossref][Google Scholar]